A. GENERAL CHARACTERISTICS
- Design standards: IEC 76
- Transformer type: Hermetically Sealed Totally Oil Filled
- Service Condition: INDOOR
- Type of oil: Mineral Oil Class 1 acc. to IEC 296
- Number of phase: 3 Phase
- Frequency: 50 Hz

B. TECHNICAL SPECIFICATION
- Capacity: 3000 kVA
- Primary Voltage: 20 kV
- Secondary Voltage: 0.4 kV
- Vector Group: Dyn5
- Temperature Rise - Oil: 60 °C
- Temperature Rise - Winding: 65 °C
- No load losses at nominal voltage: 3700 Watts
- On load losses at principal tapping: 34000 Watts
- Impedance voltage: 7 %
- Off load current at nominal voltage: 1.7 %
- Temperature Insulation Class: A
- Noise: 62 dB
- Off Circuit Tapping value: +/-2.5%; +/-5%

C. INSULATION CLASS OF THE WINDINGS
- Highest system voltage (kV): 24
- Impulse test voltage (kV): 125
- Applied test voltage (kV): 50

D. EFFICIENCY AND VOLTAGE REGULATION

<table>
<thead>
<tr>
<th>Efficiency ( % )</th>
<th>Voltage Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pf 0.8</td>
<td></td>
</tr>
<tr>
<td>4/4 load</td>
<td>98.45</td>
</tr>
<tr>
<td>3/4 load</td>
<td>98.75</td>
</tr>
<tr>
<td>2/4 load</td>
<td>98.99</td>
</tr>
<tr>
<td>1/4 load</td>
<td>99.04</td>
</tr>
<tr>
<td>in Volt</td>
<td>379</td>
</tr>
<tr>
<td>in %</td>
<td>5.17</td>
</tr>
<tr>
<td>Pf 1.0</td>
<td></td>
</tr>
<tr>
<td>4/4 load</td>
<td>98.76</td>
</tr>
<tr>
<td>3/4 load</td>
<td>99.00</td>
</tr>
<tr>
<td>2/4 load</td>
<td>99.19</td>
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<tr>
<td>1/4 load</td>
<td>99.23</td>
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<tr>
<td>in Volt</td>
<td>395</td>
</tr>
<tr>
<td>in %</td>
<td>1.37</td>
</tr>
</tbody>
</table>

E. APPROXIMATE WEIGHTS AND DIMENSION
- Total length: 2,620 mm
- Total width: 1,530 mm
- Total height: 2,100 mm
- Weight of oil: 1,645 kg
- Weight of core and winding: 2,700 kg
- Total weight: 6,400 kg
- Approximate Drawing No.: Light Grey RAL 7032

The above dimensions and masses are approximate and provided to give a general description of our proposed transformer.
F. ACCESSORIES
- Name Plate and Rating Plate
- HV Plug in Bushings and LV Porcelain Bushings
- Off Circuit Tap Changer
- Oil Filling Valve
- Oil Draining Valve
- Lifting Lugs
- Grounding Terminal
- Protection Relay RIS
- Pressure Relief Device Without Contact

G. DEVIATIONS / EXCEPTIONS
- None

H. NOTES
- None

I. LIST OF TEST
Routine Test : 
- Measurement of the resistance value and checking of polarities : Yes
- Measurement of the ratio on all taps : Yes
- No load test for measurement of the no load loss and no load current : Yes
- Short circuit test for determination of the on load loss and impedance : Yes
- Applied voltage test : Yes
- Induced voltage test : Yes

Type test :
- Temperature rise test : No
- Full wave impulses test (1.2 / 50 us) : Yes

Tests other than the above mentioned list needs further confirmation

Revision: 0
Original: D 2245
A: 
Client / Project: 
Date: 
Est. : FAL
_chk: 
App.: 
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